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NOTICE OF ALLOWANCE AND FEE(S) DUE

5642 7590 09/09/2008
SCIENTIFIC-ATLANTA, INC.
INTELLECTUAL PROPERTY DEPARTMENT
5030 SUGARLOAF PARKWAY
L AWRENCEVII L E GA 30044

EXAMINER				
ENGLAND, DAVID E				
ART UNIT	PAPER NUMBER			
2143	•			

DATE MAILED: 09/09/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/976,604	10/12/2001	Mark D. Penk	A-6727	3301

TITLE OF INVENTION: MECHANISM FOR IMPLEMENTING NETWORK DISCOVERY IN A CABLE NETWORK

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/09/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT AGAIN OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1,313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the 188 ig the Patent, advance of herwise in Block 1, by (orders and notification of r (a) specifying a new corre	naintenance fees w pondence address;	ill be ma and/or (ailed to the current b) indicating a sepa	correspondence address a rate "FEE ADDRESS" fo
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LAWRENCEVI	LLE, GA 30044						(Depositor's name)
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nonprovisional	NO	\$1440	\$300	\$0	100	\$1740	12/09/2008
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ENGLAND		2143	709-224000	J			
1. Change of corresponde			2. For printing on the p	atent front page list			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOVSB/122) attached. The Address' indication for "Fee Address' Indication form PTOVSB/47; Rev 03-02; or more recent) attached, Use of a Customer Number is required.			(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent attorney.	the names of up to 3 registered patent attorneys [1] gents OR, alternatively, the names of a single firm flaving as a member a [2] therefore of a single firm flaving as a member a [3] tiered atterney or eigents and the names of up to gistered patent attorneys or agents. If no name is [3] [4] [5] [6] [6] [6] [7] [7] [7] [8] [8] [8] [8] [8] [9] [9] [9] [9] [9] [9] [9] [9] [9] [9			
	less an assignee is ident h in 37 CFR 3.11. Comp		THE PATENT (print or tyj e data will appear on the p DT a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assigne assignment. and STATE OR C	OUNTR	Y)	
Please check the appropr	iate assignee category or	categories (will not be p	orinted on the patent):	Individual 🚨 Co.	rporation	or other private gro	sup entity 🚨 Government
4a. The following fee(s) Issue Fee Publication Fee (N	io small entity discount p		Ab. Payment of Fee(s): (Ples A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attach	ned.	
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SCIENTIFIC-ATLANTA, INC.			ENGLAND), DAVID E
	PROPERTY DEPART	TMENT	ART UNIT	PAPER NUMBER
5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044		2143		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 733 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 733 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
09/976,604	PENK ET AL.	
Examiner	Art Unit	
DAVID F. ENGLAND	2143	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- This communication is responsive to 06/13/2008.
- The allowed claim(s) is/are 45-47,49-69.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the: a) \square All
 - 1.

 Certified copies of the priority documents have been received.
 - 2.

 Certified copies of the priority documents have been received in Application No. ____
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Tonia LM Dollinger/

Supervisory Patent Examiner, Art Unit 2143

Application/Control Number: 09/976,604 Page 2

Art Unit: 2143

DETAILED ACTION

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: the closest prior art of record (Lebar U.S. Pub. No. 2002/0059619, Teraoka U.S. Pat. No. 6292836) and Rao U.S. Pat. No. 6789118) does not teach nor suggest in detail" a method or system for mapping a digital network, the system comprising: a controller configured to send an initiate signal; and a plurality of network devices in communication with the controller, each network device configured to receive a transport stream that includes a stream of data packets, each data packet including a header and a data payload, each of the plurality of network devices further configured to receive the initiate signal from the controller: wherein, in response to receiving the initiate signal from the controller, each of the plurality of network devices generates a network message and sends the network message to the controller, the network message including information associated with the respective network device; and wherein, in response to receiving the network messages from the network devices, the controller generates a transport stream map, the transport stream map representing a flow of transport streams among the plurality of network devices, wherein each of the network messages includes an input transport stream identifier (input TSID) and an output transport stream identifier (output TSID), the input TSID identifying the transport stream received by the respective network device and the output TSID identifying the transport stream transmitted by the respective network device, wherein the controller is further configured to determine if a conflict exists between two

TSIDs, and, in response to determining that a conflict exists, creating unique TSIDs to resolve the conflict.

- 2. Furthermore, in response to receiving the network messages from the plurality of devices, grouping the devices into tiers and associating a first device of the first tier with a second device of a second tier based on information related to the input transport stream identifiers and output transport stream identifiers," as argued by the Applicant (see Remarks dated 06/16/2008, pages 9 and 10 & Appeal Brief dated 12/26/2007; Specification as of 04/26/2006, pages 12 36; and Drawings dated 10/31/2005, Figures 4 10, of Applicant's enabling portions of the specification and drawings).
- Neither Teraoka, Rao or Lebar teach, alone or in combination, the claim language as stated above and in the application. More specifically, as stated in the Appeal Brief dated 12/26/2007, Teraoka and Rao do not teach the limitations in claim 49 - 69; see Arguments, pages 5 - 17.
- 4. As the claims are currently amended, Lebar does not teach the use of a controller generates a transport stream map, the transport stream map representing a flow of transport streams among the plurality of network devices and an input transport stream identifier and output transport stream identifier that is utilized in a manner that has a controller configured to determine if a conflict exists between two TSIDs and in response creating another TSID to resolve the conflict.

5. At best, Lebar teaches assigning TSIDs, none of which are indicated as input or output, to identify stream paths and groups of servers, (e.g., ¶ 0059 – 0064), but is not used to resolve any conflict between two TSIDs or other servers that are on the network.

- 6. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claim as well as for the further limitations set forth. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Claims 45 47, and 49 69 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID E. ENGLAND whose telephone number is (571)272-3912. The examiner can normally be reached on Mon-Thur, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger can be reached on 571-272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2143

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David E. England Primary Examiner Art Unit 2143

/D E E /

Patent Examiner, Art Unit 2143

/Tonia LM Dollinger/

Supervisory Patent Examiner, Art Unit 2143